

In the claims:

1-20 (canceled)

21. (Currently amended) A method of determining a parameter of interest of an earth formation having a plurality of layers, the method comprising:
conveying a multi-component resistivity logging tool into a borehole in said formation;
using at least one transmitter receiver combinations and providing a measurement indicative of the parameter of interest;
using a switchable aperture on a shield of the resistivity logging tool for providing a selective sensitivity to the parameter of interest;
wherein using the switchable aperture further comprises using a switching device to alter at least one of (i) a vertical dimension of the aperture, (ii) a horizontal dimension of the aperture.
22. (Previously presented) The method of claim 21, further comprising using the measurement for at least one of (i) geo-steering, and (ii) drilling assistance and well placement decisions.
23. (Previously presented) The method of claim 22 wherein the measurement further comprises a measurement made with a multi-component array and wherein using the measurement further comprises using a measurement made with at least one of: (i) a gyroscope, (ii) an accelerometer, (iii) a magnetometer, and (iv) an inclinometer.

24. (Previously presented) The method of claim 21, further comprising:
performing dual compensated measurement of a multi-component array to
improve at least one of: (i) a signal to noise ratio, (ii) measurement stability and
(iii) signal content with reservoir, geological and geophysical information.
25. (Currently amended) The method of claim 21, wherein providing the
measurement further comprising comprises providing a the measurement at a
plurality of frequencies, and using the measurement at the plurality of frequencies
for determining the parameter of interest.
26. (Currently amended) The method of claim 21 f wherein using the switchable
aperture further comprises making a measurement at at least one of (i) and xy
orientation, (ii) an xz orientation, (iii) a yz orientation, (iv) a 20°-40° orientation,
and (v) a 40°-90° orientation.
27. canceled
28. canceled
29. (Currently amended) The method of claim 21, wherein providing the
measurement further comprises:
measuring a time domain response; and

converting the time domain response into a frequency domain response.

30. - 35 (canceled)

36. (Previously presented) The method of claim 21, further comprising:
binning measurements made by the logging tool at a plurality of rotational angles.

37. (original) The method of claim 36 further comprising:
averaging depth intervals and azimuthal sectors for the binned measurement data.

38. (Previously presented) The method of claim 37 further comprising:
processing the binned measurement data; and
estimating or inverting formation drilling target parameters from the processed
binned measurement data from a given transmitter receiver array.

39. (canceled)

40. (canceled)

41. (canceled)

42. (canceled)

43. (Previously presented) The method of claim 21, where rotation of the tool is not synchronized with a transmitter repeat cycle.
44. (canceled)
45. (canceled)
46. (Withdrawn) A method of determining a parameter of interest of an earth formation having a plurality of layers, the method comprising:
conveying a multi-component resistivity logging tool into a borehole in said formation;
using at least one transmitter receiver combinations and providing a measurement indicative of the parameter of interest; and
using a magnetic lens for providing a selective sensitivity to the parameter of interest.
47. (Withdrawn) The method of claim 46, further comprising using the measurement for at least one of (i) geo-steering, and (ii) drilling assistance and well placement decisions
48. (Withdrawn) The method of claim 46 wherein the measurement further comprises a measurement made with a multi-component array and wherein using the

measurement further comprises using a measurement made with at least one of:

(i) a gyroscope, (ii) an accelerometer, (iii) a magnetometer, and (iv) an inclinometer.

49. (Withdrawn) The method of claim 46 wherein using the magnetic lens further comprises using a printed circuit board.

50. (Withdrawn) An apparatus for determining a parameter of interest of an earth formation having a plurality of layers, the apparatus comprising:
a multi-component resistivity logging tool conveyed into a borehole in said formation;
at least one transmitter on the logging tool that is activated to produce an electromagnetic field in the formation;
at least one receiver which provides a measurement indicative of the parameter of interest; and
a switchable aperture on a shield of the resistivity logging tool which provides a selective sensitivity to the parameter of interest.

51. (Withdrawn) An apparatus for determining a parameter of interest of an earth formation having a plurality of layers, the apparatus comprising:
a multi-component resistivity logging tool conveyed into a borehole in said formation;

at least one transmitter on the logging tool that is activated to produce an electromagnetic field in the formation;

at least one receiver which provides a measurement indicative of the parameter of interest; and

a magnetic lens on the resistivity logging tool which provides a selective sensitivity to the parameter of interest.